

MATERIAL SPECIFICATIONS

TPE 210-S

HIGHLIGHTS

- Soft, white parts out of the machine
- Extreme elongations achievable without permanent deformation
- Easy to infiltrate to obtain maximum properties
- 100% recyclable

APPLICATIONS

- Footwear prototyping
- Automotive gaskets and seals
- Cushioning applications
- Ideal for applications requiring softer parts with excellent ductility and surface finish

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	U.S. STANDARD	METRIC
Colour/Appearance	Visual	White	White
Bulk Density	ASTM D1895	0.214 oz/in ³	0.37 g/cm ³
Elongation at Break	ASTM D638	110%	110%
Flexural Modulus (-40°C)	ASTM D790	3,336 psi	23 MPa
Flexural Modulus (23°C)	ASTM D790	1,885 psi	13 MPa
Flexural Modulus (100°C)	ASTM D790	435 psi	3 MPa
Initial Tear Resistance, Die C, 23°C	ASTM D624	7.4 lbf	33 N
Abrasion Resistance, Taber H-18 Wheel	ASTM D4060	0.012 oz	535 mg
Shore Hardness, Shore "A"	ASTM D2240	40	40
Tensile Modulus	ASTM D638	1,160 psi	8 MPa
Average Particle Size (D50)	Laser Diffraction	0.003 inches	85 microns
P article Size Range (D10-D90)	Laser Diffraction	0.001 - 0.005 inches	20 - 130 microns
Sintered Part Density	ASTM D792	0.595 oz/in ³	1.03 g/cm ³

For reference use only. Actual properties may vary significantly from those listed above based on processing parameters, operating conditions and end use applications. The above properties were based on virgin ALM TPE 210-S using normal processing parameters on a 2500+ platform as outlined in the ALM Material Processing Guide. Advanced Laser Materials, LLC makes no warranties of materials for any application, nor does it make a warranty of any type, expressed or implied, but not limited to, the warranties of merchantability for a particular purpose.



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